

Anti-Calpastatin antibody [SP82] - BSA and Azide free ab240938

リコンビナント **RabMAb**

画像数 6

製品の概要

製品名	Anti-Calpastatin antibody [SP82] - BSA and Azide free
製品の詳細	Rabbit monoclonal [SP82] to Calpastatin - BSA and Azide free
由来種	Rabbit
アプリケーション	適用あり: ICC/IF, Flow Cyt (Intra), IHC-P
種交差性	交差種: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	IHC-P: Human breast carcinoma tissue; Flow Cyt (intra): HaCaT and HeLa cells; ICC/IF: HaCaT cells.
特記事項	<p>ab240938 is the carrier-free version of ab101684.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.20 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A/G purified
特記事項 (精製)	Purified from TCS by protein A/G.
ポリ/モノ	モノクローナル
クローン名	SP82
アイソタイプ	IgG

アプリケーション

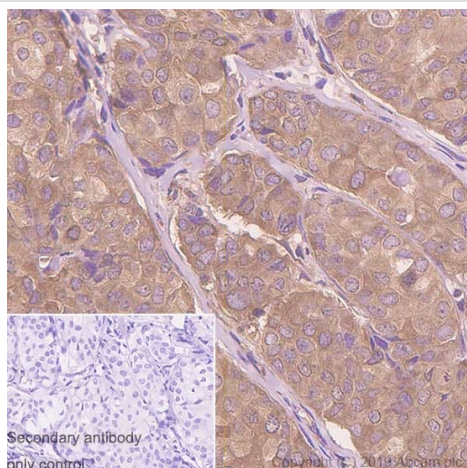
The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab240938の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
ICC/IF		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration. ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		Use at an assay dependent concentration. Incubate for 30 minutes at RT. Antigen retrieval is recommended: boil tissue section in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

ターゲット情報

機能	Specific inhibition of calpain (calcium-dependent cysteine protease). Plays a key role in postmortem tenderization of meat and have been proposed to be involved in muscle protein degradation in living tissue.
配列類似性	Belongs to the protease inhibitor I27 (calpastatin) family.
ドメイン	Has four inhibitory domains.
翻訳後修飾	The N-terminus is blocked.

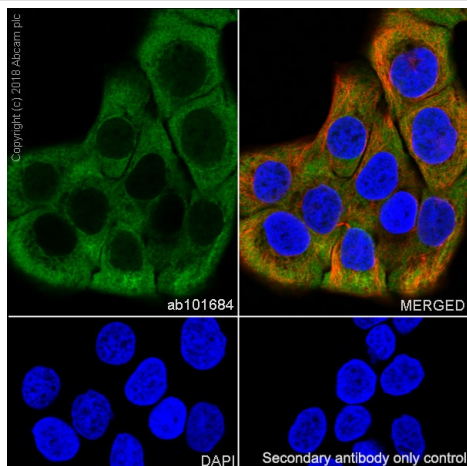
画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calpastatin antibody [SP82] - BSA and Azide free (ab240938)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human breast carcinoma tissue sections labeling Calpastatin with Purified **ab101684** at 1/100 dilution (0.59 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

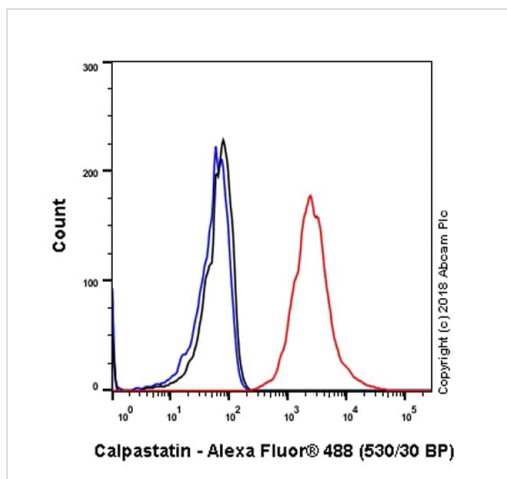
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab101684**).



Immunocytochemistry/ Immunofluorescence - Anti-Calpastatin antibody [SP82] - BSA and Azide free (ab240938)

Immunocytochemistry/ Immunofluorescence analysis of HaCaT (human skin keratinocyte) cells labeling Calpastatin with purified **ab101684**. Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

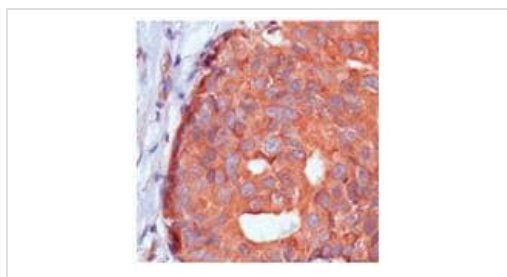
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab101684**).



Flow Cytometry (Intracellular) - Anti-Calpastatin antibody [SP82] - BSA and Azide free (ab240938)

Intracellular Flow Cytometry analysis of HaCaT (human skin keratinocyte) labeling Calpastatin with purified **ab101684** (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor®488, **ab150077**) was used as a secondary antibody. Isotype control - Rabbit monoclonal IgG (**ab172730**) (black). Unlabeled control - Unlabelled cells (blue).

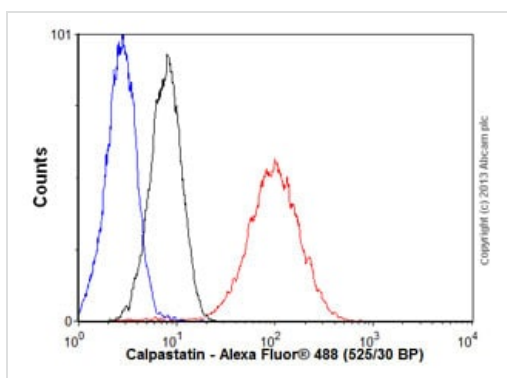
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab101684**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calpastatin antibody [SP82] - BSA and Azide free (ab240938)

Immunohistochemical analysis of Calpastatin in formalin-fixed, paraffin-embedded Human breast carcinoma using **ab101684** at 1/200 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab101684**).



Flow Cytometry (Intracellular) - Anti-Calpastatin antibody [SP82] - BSA and Azide free (ab240938)

Overlay histogram showing HeLa cells stained with **ab101684** (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (**ab101684**, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor®488 goat anti-rabbit IgG (H&L) (**ab150077**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1?g/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab101684**).

Why choose a recombinant antibody?



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Success from the first experiment
Confirmed specificity



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